

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A control system, comprising:
 - an automation device operably connected to a network;
 - a network device operably connected to the network; and,
 - a plurality of customized application programs for the automation device stored in the network device, wherein ~~[[the]]~~ one customized application program of the plurality of customized application programs controls the automation device, ~~wherein the customized application program~~ and is selected by the network device in response to ~~[[an]]~~ a specific application program request message for the one customized application program received at the network device and sent from the automation device as part of a bootstrap protocol, and wherein the customized application program is downloaded to the automation device at a boot time of the automation device.
2. (Currently Amended) The control system of claim 1 wherein the one customized application program comprises an executive code and a user code.
3. (Previously Presented) The control system of claim 2 wherein the executive code is selected in response to the user code selected.
4. (Original) The control system of claim 1 wherein the automation device is a programmable logic controller.
5. (Original) The control system of claim 1 wherein the network device is a server.
6. (Previously Presented) The control system of claim 5 wherein the server has a TCP/IP protocol stack.
7. (Original) The control system of claim 1 wherein the network is Internet.
8. (Original) The control system of claim 1 wherein the network is Ethernet.
9. (Original) The control system of claim 1 wherein the network is Profibus.
10. (Original) The control system of claim 1 wherein the network is ControlNet.

11. (Original) The control system of claim 1 wherein the network is Modbus+.

12. (Currently Amended) A method of operating a control system on a network comprising the steps of:

providing a network device for storing a plurality of customized application programs to be executed on an automation device;

transmitting a message for requesting a network address for the automation device by the automation device;

transmitting a message by the automation device for requesting [[the]] one customized application program of the plurality of customized application programs for the automation device as part of a bootstrap protocol;

selecting the one customized application program in response to the message for requesting [[the]] one customized application program of the plurality of customized application programs;

transmitting the one customized application program to the automation device;
and,

installing the one customized application program on the automation device at a boot time of the automation device.

13. (Currently Amended) The method of claim 12 further comprising the step of executing the customized one application program on the automation device.

14. (Currently Amended) The method of claim 12 wherein the step of selecting the one customized application program in response to the request for [[the]] one customized application program of the plurality of customized application programs comprises the steps of:

identifying the message for requesting [[the]] one customized application program of the plurality of customized application programs;

selecting a user application program in response to the message requesting [[the]] one customized application program of the plurality of customized application programs; and,

selecting an executive program in response to the user application program selected.

15. (Currently Amended) The method of claim 12, wherein the specific customized application program further comprises:

an executive program code for the automation device; and,
a user program code for the automation device, the user program is selected in response to the message requesting [[the]] one customized application program of the plurality of customized application programs.

16. (Currently Amended) The method of claim 15 wherein the executive program code is customized in response to the message ~~requesting the customized application program~~ to meet the minimum requirements for executing the one customized application program.

17. (Currently Amended) A network control system, comprising:

means for operably connecting a network device to the network control system, the network device stores a plurality of customized application programs for controlling an automation device;

means for transmitting a message requesting a network address by the automation device;

means for transmitting a message by the automation device requesting [[the]] one customized application program of the plurality of customized application programs as part of a bootstrap protocol;

means for selecting the one customized application program in response to the message requesting the one customized application program;

means for transmitting the [[a]] one customized application program to the automation device; and,

means for installing the one customized application program at a boot time of the automation device.

18. (Canceled)

19. (Original) The network control system of claim 17 wherein the automation device is a controller.

20. (Original) The network control system of claim 17 wherein the network device is a server.

21. (Currently Amended) A method of operating a control system on a network comprising the steps of:

providing a network device for storing a plurality of customized application programs to be executed on an automation device;

requesting a network address for the automation device by the automation device;

requesting ~~[[the]]~~ one customized application program of the plurality of customized application programs by the automation device as part of a bootstrap protocol;

selecting the one customized application program;

transmitting the one customized application program to the automation device;

and,

installing the one customized application program on the automation device at a boot time of the automation device.

22. (Canceled)

23. (Currently Amended) The method of claim 21 wherein further comprises:

selecting a user code for the one customized application program; and,

selecting an executive code for the one customized application program.